



State Revolving Fund Loan Programs

Drinking Water, Wastewater, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

TOWN OF PLAINFIELD NORTHEAST WATER TOWER PROJECT SRF # DW 09 57 32 01

DATE: July 16, 2009

TARGET PROJECT APPROVAL DATE: August 15, 2009

I. INTRODUCTION

The above entity has applied to the Drinking Water State Revolving Loan Fund (SRF) for a loan to finance all or part of the wastewater project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The SRF Drinking Water Program has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 4-4-11, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FNSI. Comments must be received at the address below by the deadline date above. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

Amy Henninger
Senior Environmental Manager
State Revolving Fund -- IGCN 1275
100 N. Senate Ave.
Indianapolis, IN 46204
317-232-6566

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address:

Northeast Water Tower Construction
Town of Plainfield
206 W. Main Street
Plainfield, IN 46168

SRF Project Number:

DW 09 57 32 01

Authorized Representative:

Timothy A. Belcher, P.E.
Town Engineer

II. PROJECT LOCATION

The proposed project is located south west of the intersection of Ronald Regan Parkway and 200 South, on the north east side of Plainfield. Specifically, the project is located within the Bridgeport Quadrangle, Section 20, Township 15N, Range 2E, in Washington Township, Hendricks County, Indiana. See Exhibit 1.

III. PROJECT NEED AND PURPOSE

The Northeast Water Tower and Booster Station project is needed to maintain water pressure within the distributions system and to provide sufficient equalization storage for the existing and 20 year future demands.

The existing distribution system consists of several thousand feet of water main ranging in size from 4-inch diameter to 18-inch diameter.

Approximately 3,100 feet of 16-inch diameter water main is needed along Ronald Reagan Parkway in order to connect the proposed storage tank to the distributions system. The proposed water main will ensure that sufficient pressure, flow, and equalization storage is maintained throughout the system for current and 20 year future demands.

The existing storage system consists of a fluted pedestal one million gallon tank located along SR 267 and a multi-legged five-hundred gallon tank located along Carr Road.

A one million gallon composite elevated water tower and booster station is needed to maintain pressure within the high pressure district of the distribution system. Currently the Carr Road Booster Station is used to deliver water to the Town of Plainfield and City of Indianapolis customers. The Town of Plainfield is not able to maintain the high pressure district at high system pressure during a disruption of the Carr Road Booster Station. The proposed water tower

and booster station will provide needed redundancy as well as stabilize system pressure. The tank has been designed with reserve capacity and should provide sufficient equalization storage for both existing and 20 year future demands.

IV. PROJECT DESCRIPTION

A one million gallon composite elevated water tower and booster station will be constructed to maintain pressure within the high pressure district of the distribution system.

Approximately 3,100 feet of 16-inch diameter water main will be installed along Ronald Reagan Parkway, to connect the proposed water tank to the distribution system.

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Estimated Cost Summary

Construction Costs

One MG Composite Elevate Water Tower	\$ 2,032,000
Booster Station	288,000
3,100 LF of 16" Ductile Iron Water Main	310,000
Mobilization and Demobilization	18,000
2,000 SY Mulched Seeding	2,000
Generator	75,000
Construction subtotal	2,725,000
Contingency	62,000
Total Construction Cost	2,787,000

Non-Construction Costs

Engineering Planning	\$ 95,000
Engineering Design	181,000
Construction Inspection	140,000
Non-Construction Cost	416,000

Total Estimated Project Cost \$3, 203,000

- B. Plainfield will finance the project with a 20-year loan of approximately \$3,203,000 from the State Revolving Fund (SRF) Loan Program at an interest rate to be determined at the time of loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

No Action Alternative: The no-action alternative to the new storage and distribution system would leave the current system with insufficient pressure to serve current and future customers. In addition, the no-action alternative will lead to insufficient equalization storage to meet current and future, domestic, commercial and fire demands.

Installation of Booster Station: The second alternative is to install a booster station capable of providing sufficient distribution pressure. However this alternative does not address the need for

equalization storage and will not address existing and future domestic, commercial, and fire demands. Furthermore, the capital and operational costs associated with this alternative are cost prohibitive.

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Undisturbed/Disturbed Land: The elevated water storage tank will be constructed on undisturbed farmland. New water mains will be within existing roads right-of ways, previously disturbed by road construction. An archaeological field reconnaissance survey has been completed for all project areas.

Structural Resources (Exhibit 2): The project will not affect historic sites or districts. Audible, atmospheric or visual effects of the projects will be temporary. The SRF's finding pursuant to Section 106 of the National Historic Preservation Act is: "no historic properties affected."

Surface Waters and Wetlands (Exhibit 3): The project will not affect wetlands.

100-Year Floodplain (Exhibit 1): The projects will not affect the 100-year floodplain.

Groundwater: The proposed project will not negatively affect a sole source aquifer or other groundwater resources. The groundwater table may be temporarily affected by water main installation.

Plants and Animals: The proposed project will not affect endangered plants or animals. The project will be implemented to minimize impact to non-endangered species and their habitat.

Prime Farmland: The proposed project will cause a conversion of 8.7 acres of prime farmland.

Air Quality: Air quality will be temporarily impacted by construction activities, including vehicle exhaust and dust.

Open Space and Recreational Opportunities: The proposed project will neither create nor destroy open space and recreational opportunities. The proposed projects will not affect National Natural Landmarks.

B. Indirect Impacts

The town's Preliminary Engineering Report (PER) states: *The town will ensure, through local zoning laws or other means, that future development, as well as future supply, storage, distribution, or treatment works projects connecting to SRF-funded facilities, will not adversely impact wetlands, archaeological/ historical/ structural resources, or other sensitive environmental resources. The town will require new development and treatment works projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental review authorities.*

C. Comments from Environmental Review Authorities

This document serves as the first notice to the U.S. Fish and Wildlife Service, The Indiana Department of Natural Resources Division of Historic Preservation and Archaeology, and the IDNR Environmental Unit.

The Natural Resources Conservation Service, in correspondence dated April 14, 2009, stated that *“the proposed project to construct an elevated water tower along with 3,100 feet of water main along Ronald Reagan Parkway in the Town of Plainfield, Hendricks County, Indiana, as stated in your letter dated April 7, 2009, will cause a conversion of prime farmland.*

Supplemental information shows that 8.7 acres of prime farmland will be converted due to this project.

VIII. MITIGATION MEASURES

The town's PER states: *Any mitigation measures cited in comment letters from the Department of Natural Resources and the U.S. Fish and Wildlife Service will be implemented. The project will be implemented to minimize impact to non-endangered species and their habitat.*

Existing topsoil will be reused during the restoration process, if applicable.

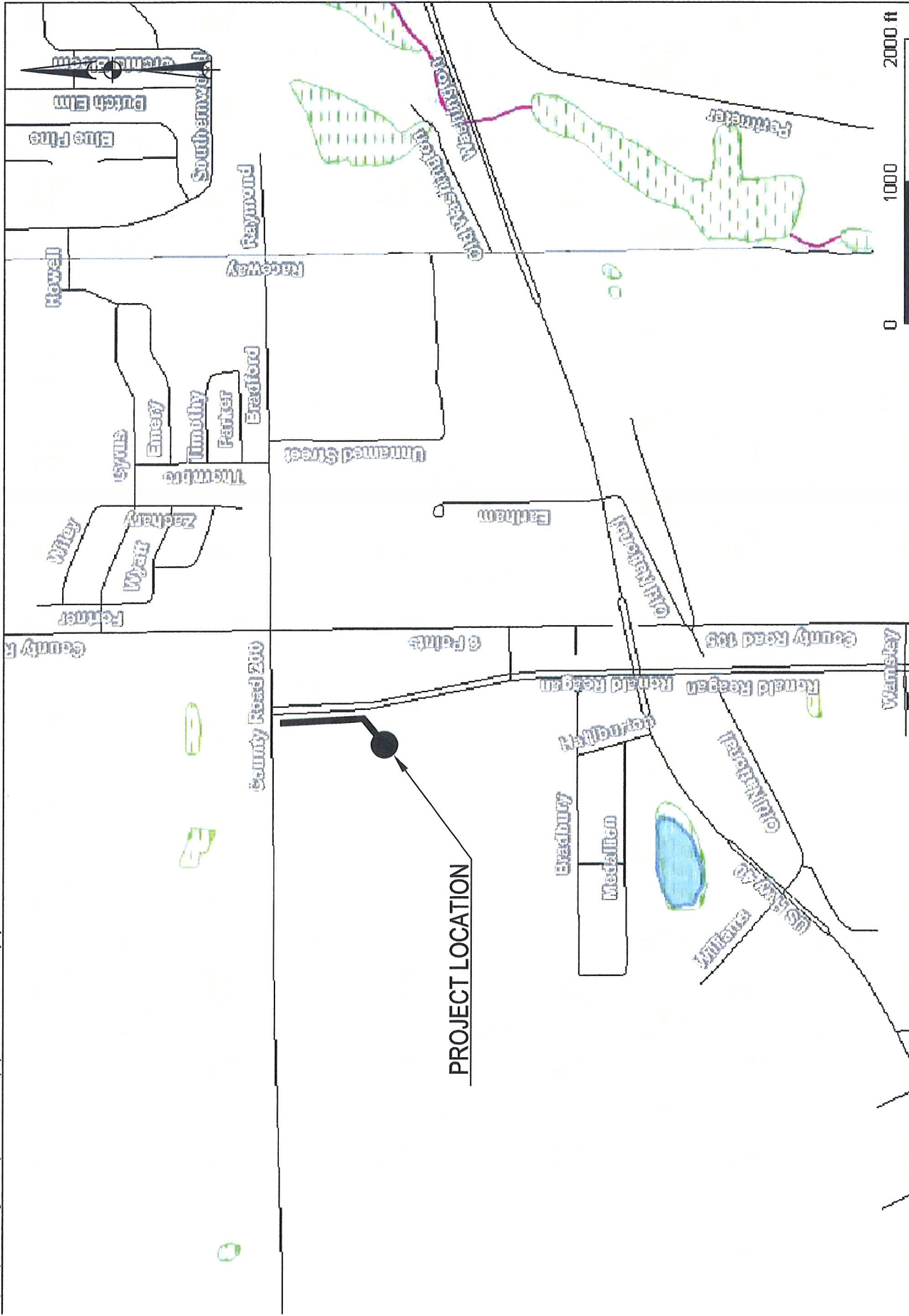
The amount of dust may be mitigated by periodic wetting of the exposed soil to reduce the suspension of particles.

Normal daytime hours will be used for work activities to reduce noise impacts.

IX. PUBLIC PARTICIPATION

A properly noticed Public Hearing was held on June 30, 2009 at 7:00 pm at the Plainfield Municipal Building, 206 W. Main Street. There were no written comments received by the utility during the 5-day period following the public hearing.

Exhibit 1




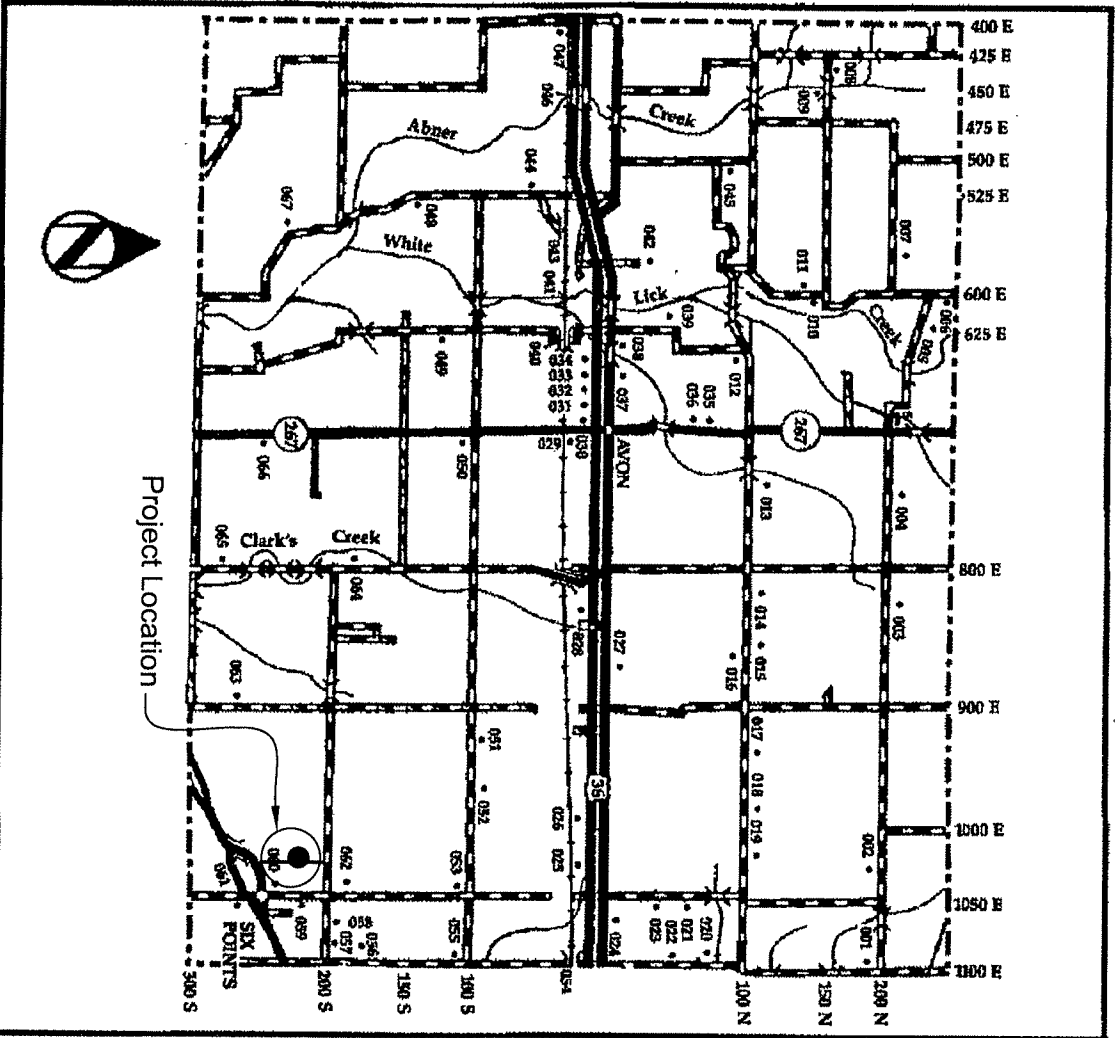
	DRAWN: C. Miniello CHECKED: J. Lightner DATE: 03/13/09	NORTHEAST WATER TOWER CONSTRUCTION APPENDIX D-NATIONAL WETLANDS INVENTORY MAP		HORIZONTAL SCALE VERTICAL SCALE
	PLAINFIELD, INDIANA HENDRICKS COUNTY		SHEET OF PROJECT	BRS NO. 4414

Exhibit 2

Washington Township (45001-068)



Washington Township was one of Hendricks County's original townships. Initial settlement in the area occurred in 1822 in the northeast section near Shiloh Church. The township is named in honor of George Washington at the suggestion of the first township justice of the peace, Aaron Homan.

Washington Township encompasses 38 square miles which vary from small hills to level grassland. This topography was ideal for raising stock and planting crops although today only three percent of Washington Township's population are farmers. The remainder of the land has been developed for suburban housing due to the township's proximity to Indianapolis. The township's central and eastern parts were swampland prior to being drained, largely through the work of Irish immigrants in the 1850s. White Lick Creek flows across the west side of the township and the East Fork of White Lick Creek flows across the southeast corner.

Only one town remains in Washington Township, Avon, located at the junction of U.S. 36 and State Road 267, was settled in 1830 by families with names now familiar to the residents of Hendricks County: Haron, Ross, McCain, Merritt, Cossett, Barker and Sigurson.

The town was known by various names prior to becoming Avon in the 1870s when the Indianapolis and St. Louis Railroad went through. In 1833 Absalom Payne was made postmaster of Hampton, the town's original name. The job then passed to a Dr. Melare, and then to W. T. Ross, who discontinued the post office. In 1852, O. J. Haron opened the White Lick Post Office which lasted only three months. In the late 1850s, John Smoot set up a store and in 1867 Smoot petitioned for a post office to be opened in the town of Smoosdel. When the railroad was surveyed, one of its surveyors disliked the name and christened



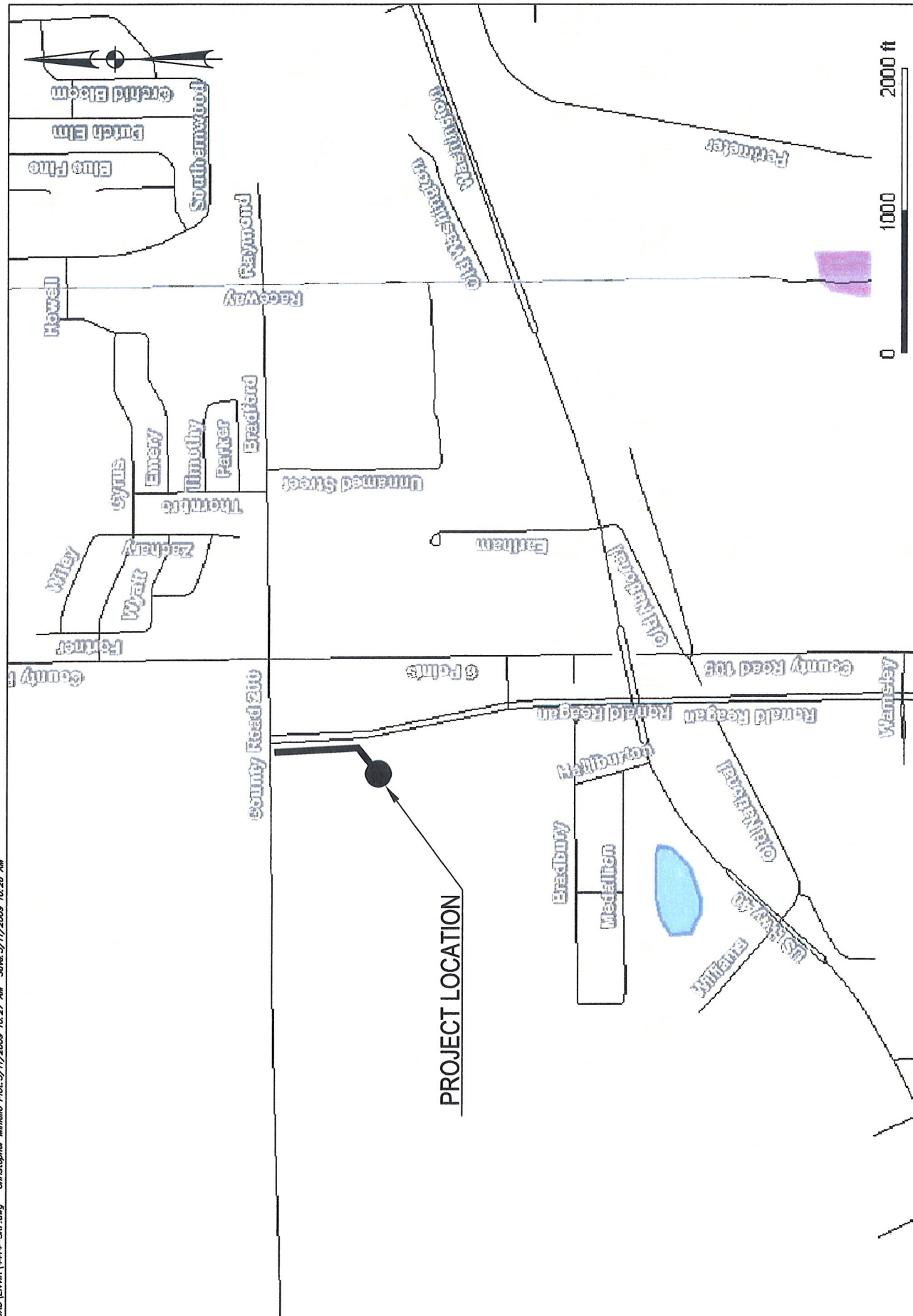
DRAWN: C. Minello
CHECKED: J. Lightner
DATE: 03/13/09


NORTHEAST WATER TOWER CONSTRUCTION
APPENDIX D-INTERIM REPORT (HISTORIC SITES/STRUCTURES MAP)
PLAINFIELD, INDIANA
HENDRICKS COUNTY

HORIZONTAL SCALE
VERTICAL SCALE
SHEET
OF
PROJECT

Exhibit 3

C:\DWG\4414-SRF.dwg Christopher Miniello Plot: 3/11/2009 10:27 AM Save: 3/11/2009 10:28 AM



	DRAWN: C. Miniello CHECKED: J. Lightner DATE: 03/13/09	HORIZONTAL SCALE VERTICAL SCALE SHEET OF PROJECT	
	NORTHEAST WATER TOWER CONSTRUCTION APPENDIX D-100 YR FLOODPLAIN MAP PLAINFIELD, INDIANA HENDRICKS COUNTY		

BRS NO. 4414